

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of: )  
BRANCIFORTE ET AL. )  
Serial No. Not yet assigned )  
Filing Date: Herewith )  
For: QUANTUM GATE FOR CARRYING OUT )  
A GROVER'S QUANTUM ALGORITHM )  
AND A RELATIVE METHOD OF )  
PERFORMING THE INTERFERENCE )  
OPERATION OF A GROVER'S )  
QUANTUM ALGORITHM )  
I HEREBY CERTIFY THIS PAPER OR FEE IS BEING  
DEPOSITED WITH THE U.S. POSTAL SERVICE  
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SERVICE UNDER 37 CFR 1.10 ON THE DATE  
INDICATED BELOW AND IS ADDRESSED TO: MS  
PATENT APPLICATION, PO BOX 1450, ALEXANDRIA,  
VA 22313-1450.  
EXPRESS MAIL NO: EV301516173US  
DATE OF DEPOSIT: November 4, 2003  
NAME: Kristin Thanski  
SIGNATURE: Kristin Thanski

## **PRELIMINARY AMENDMENT**

MS Patent Application  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Prior to the calculation of fees and examination of the present application, please enter the amendments and remarks set out below.

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In the Drawings:

Attached are three (3) replacement drawing sheets.  
The changes made to the drawings are explained in the remarks  
section below.